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Fig. 1

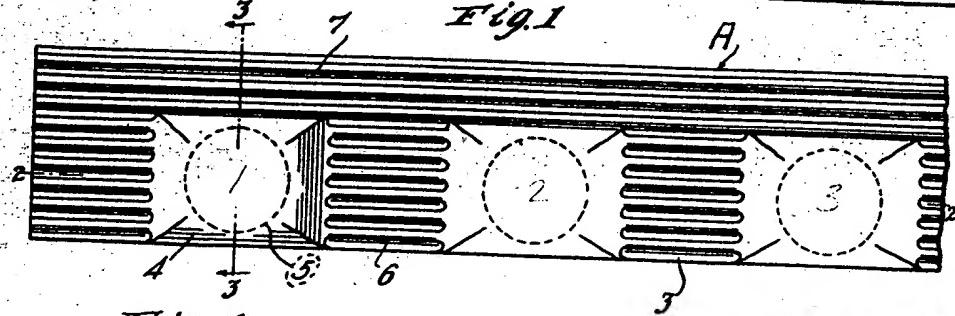


Fig. 4

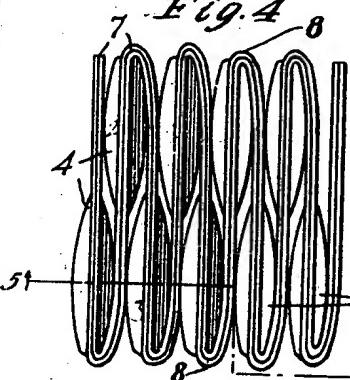


Fig. 5

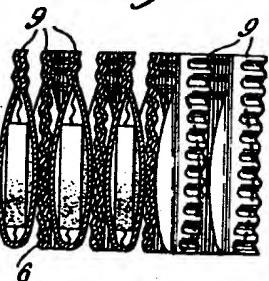


Fig. 6

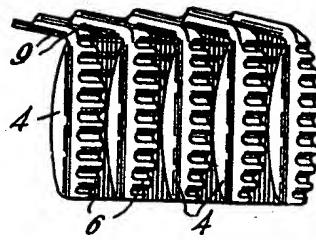


Fig. 9

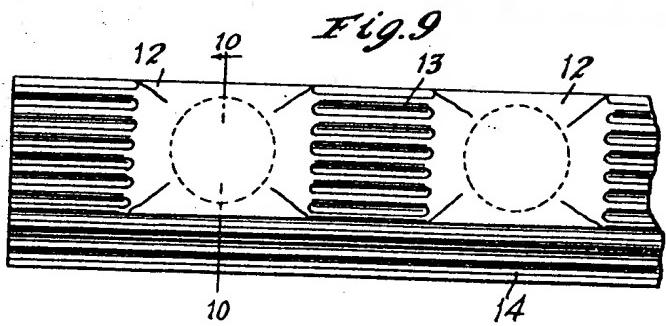


Fig. 10

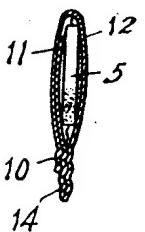


Fig. 14

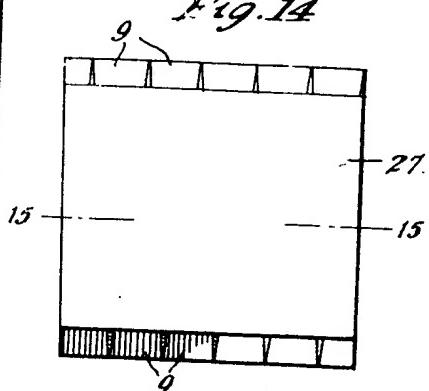


Fig. 16

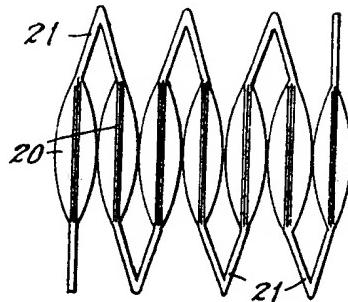


Fig. 15

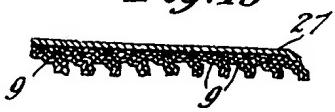
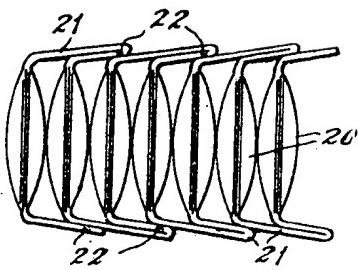


Fig. 18



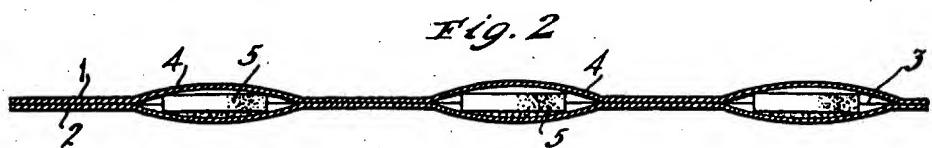


Fig. 2

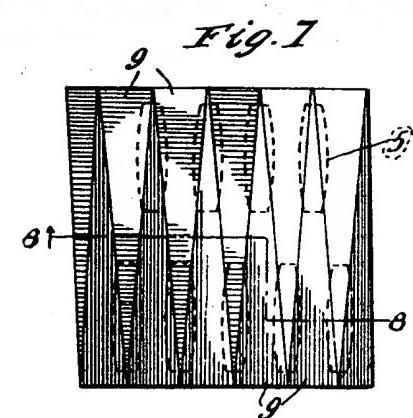


Fig. 1

Fig. 3

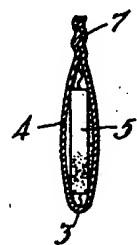


Fig. 7a

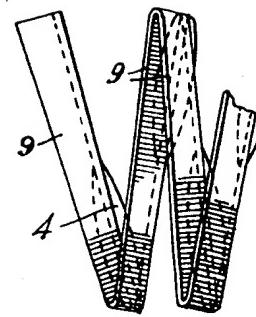


Fig. 8

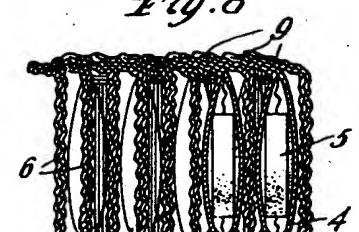


Fig. 12

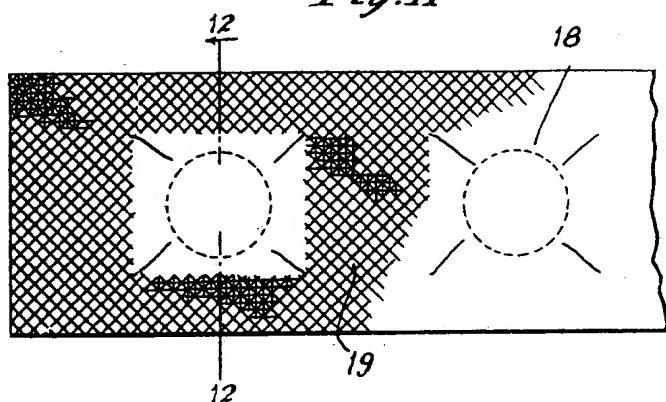


Fig. 11

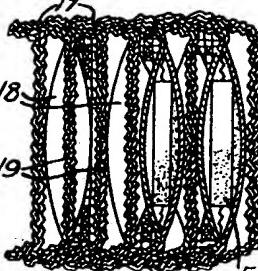
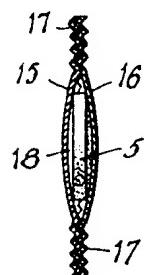


Fig. 13

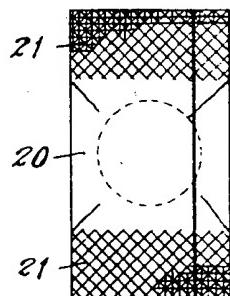


Fig. 17

Fig. 19

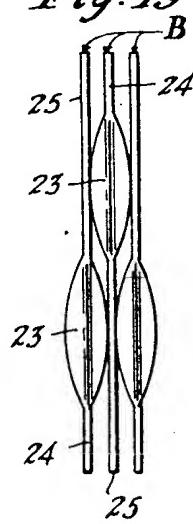


Fig. 20

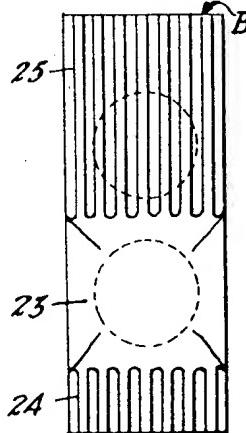
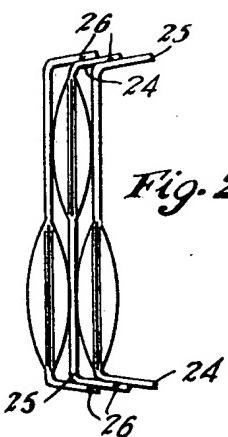


Fig. 21



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Application Date : 10th Apr., 1940. No. 1398/40.

Under International or Intercolonial Arrangements.
(United States of America, 26th April, 1939.)

Applicant LEROY LINCOLN SALSBERG.
Application and Complete Specification . . . Accepted, 10th June, 1941.
Acceptance Advertised (Sec. 50) . . . 26th June, 1941.

Classes 57.4 ; 57.1 ; 49.3.

Drawing attached.

COMPLETE SPECIFICATION.

"Improvements relating to packages for tablets, pills or other small articles."

I, LEROY LINCOLN SALSBERG, a citizen of the United States of America, of 39 University Court, South Orange, State of New Jersey, United States of America, 5 Manufacturer, hereby declare this invention and the manner in which it is to be performed, to be fully described and ascertained in and by the following statement:-

This invention relates to packages for 10 unit products such as medicinal or chemical tablets or pills, buttons or other small articles, of the type comprising a plurality of approximately flat article-containing sections disposed in side-by-side relation.

15 The invention consists in a package of the aforesaid type in which an extension is provided at least one edge of each section and in which the whole of such extensions are folded into overlying relation and 20 separably connected together. The invention includes other features hereinafter described and claimed and in order that it may be clearly understood, reference will

now be made to the accompanying drawings in which several constructional forms are illustrated by way of example.

Referring to said drawings:

Figure 1 is a fragmentary plan view on a greatly enlarged scale of one form of package strip before folding of the strip into sections. 5

Figure 2 is a vertical longitudinal sectional view on the line 2--2 of Figure 1. 10

Figure 3 is a transverse vertical sectional view on the line 3--3 of Figure 1.

Figure 4 is a top edge view of the package showing the strip folded into zigzag form. 15

Figure 5 is a vertical longitudinal sectional view on the line 5--5 of Figure 4.

Figure 6 is a front elevation of the complete package with the extension of adjacent package sections secured together. 20

Figure 7 is a top plan view of the package shown in Figure 6.

Figure 7A is a fragmentary top plan view showing the sections partially unfolded.

Figure 8 is a longitudinal vertical sectional view on the line 8—8 of Figure 7.

Figure 9 is a view similar to Figure 1 showing another form of package strip.

5 Figure 10 is a transverse sectional view on the line 10—10 of Figure 9.

Figure 11 is a view similar to Figure 1 showing another form of package strip.

10 Figure 12 is a transverse vertical sectional view on the line 12—12 of Figure 11.

Figure 13 is a view similar to Figure 8 showing the completed package formed of the strip illustrated in Figures 11 and 12.

15 Figure 14 is a view similar to Figure 7 showing the package with a label.

Figure 15 is a longitudinal vertical sectional view on the line 15—15 of Figure 14.

20 Figure 16 is a view similar to Figure 4 showing another form of package strip.

Figure 17 is an end elevational view of the structure shown in Figure 16.

Figure 18 is a view similar to Figure 6 25 showing the structure of Figure 16.

Figure 19 is a front elevational view of another form of package.

Figure 20 is an end elevational view of the package shown in Figure 19, and

30 Figure 21 is a view similar to Figure 19 showing the extensions of adjacent package sections folded and secured together.

Specifically describing the embodiment of the invention illustrated in Figures 1 to 35 8 inclusive, the package includes a strip or tape A formed of suitable thin material either thermoplastic or having a thermoplastic or adhesive coating, for example the material marketed by the proprietor under 40 the registered trade mark "Pliofilm", or the materials known as "Protectoid" and "Diaphane", or thermoplastically, or adhesively coated cellulosic sheet material such as that marketed by the proprietor 45 under the registered trade mark "Cellophane", or metal foil. The strip comprises a plurality of superposed layers 1 and 2 which may be formed by folding a strip of material longitudinally as at 3. Between 50 the layers 1 and 2 are formed a plurality of compartments 4 for containing articles such as medicinal tablets 5, the compartments being in spaced relation longitudinally of the strip. One side of each compartment 4 55 comprises the fold 3 of the strip, while the other three sides are formed by crimped and

sealed areas 6 extending transversely of the strip and a sealed area 7 extending longitudinally of the strip along the free edge portions of the layers.

Where the strip of material is thermoplastic or has a thermoplastic coating on the contacting surfaces of the layers 1 and 2, the sealed areas 6 and 7 may be formed by simultaneous application of heat and pressure to fuse the material. The crimping may be of any suitable form such as the longitudinal corrugations illustrated.

The package strip after having been formed as described with the articles 5 encased therein, is folded or bent transversely between the compartments 4 as indicated at 8 in Figure 4 so as to form a plurality of approximately flat sections disposed in side-by-side relation with two rows of articles 5 and a crimped and 20 sealed portion 6 between each two adjacent articles as clearly shown in Figures 4 and 5.

The longitudinally sealed area 7 constitutes an extension of the packaging material 25 along one edge of each section as shown in Figure 3, and in accordance with the invention the extensions 9 of adjacent sections are folded and separably secured together as shown in Figures 6, 7 and 8. The extensions 30 may be so secured together adhesively and preferably by thermoplastic adhesion, so that the extensions may be separable from each other for removing the articles from the package.

With this construction, it will be observed that the sections of the package are held together as a unit so that the package can be handled and inserted into and removed from a carton, and the articles individually 40 can be conveniently removed from the package without possibility of unintended separation of the sections or unfolding of the strip. To remove the articles from the package, the extension 9 of the end-most 45 section is pulled away or separated from the extension of the adjacent section so that the section can be unfolded. Then the material of the strip may be torn transversely adjacent the article 5 so as to open the 50 compartment 4 and permit removal of the article.

Another form of package strip is shown in Figures 9 and 10 where a strip of material has its edge portions 10 and 11 55 folded inwardly into overlying relation to

each other and secured together, preferably thermoplastically. Article containing compartments 12 are disposed in spaced relation longitudinally of the strip with crimped and sealed areas 13 extending transversely of the strip between the articles. One or both longitudinal edges of the strip may be an extension 14 which may also be flattened and crimped so as to force the superposed layers into tight contact with each other. The strip so formed is folded in the same zigzag manner hereinbefore described in connection with Figures 1 to 8 inclusive, the extension 14 forming extensions on each of the sections between the folds of the strip, and said extensions of adjacent sections being secured together as hereinbefore described.

In Figures 11, 12 and 13 the package strip is formed of two separate layers 15 and 16 of suitable material which are secured together along each of their longitudinal edge portions as at 17. Article containing compartments 18 are spaced longitudinally of the strip with crimped sealed areas 19 between the compartments. Preferably the distance between each of the compartments 18 is substantially equal to the width of the compartment so that the strip may be folded transversely in zigzag form as described in connection with Figures 1 to 8. The longitudinal edge portions 17 form extensions on the sections between the folds, and the extensions of adjacent sections are folded into overlying relation and separably secured to the extensions of adjacent sections as hereinbefore described.

Figures 16 to 18 inclusive illustrate another form of package wherein the package strip has a plurality of article containing compartments 20 disposed in spaced relation longitudinally of the strip with flattened, crimped and sealed areas 21 between the compartments. The strip is folded into zigzag form transversely at approximately the middle of each flattened area 21 so as to form sections each including a compartment 20 in side-by-side relation to the other compartments as shown in Figure 16. The folded flattened areas 21 constitute extensions of the sections. Each extension is folded into overlying relation and separably secured to the extension of an adjacent section, as shown in Figure 18 at 22. To remove the articles

from the package, the end-most section is torn transversely of the flattened area 21, and simultaneously or subsequently the strip may be torn transversely of the flattened area close to the article containing compartment so as to open the latter and permit removal of the article.

Figures 19 to 21 inclusive show a package comprising initially separate sections B each of which includes an article containing compartment 23 at opposite sides of which are flattened sealed areas 24 and 25 one of which is preferably of a size approximately corresponding to the size of the compartment 23. The sections are arranged in side-by-side relation with the article containing compartment 23 of one section juxtaposed to the larger flattened area 25 of the other section as shown in Figure 19. The flattened portions 24 and 25 form extensions for the sections, and the extensions of each section are folded into overlying relation and separably secured to the adjacent extensions of adjacent sections, as shown at 26 in Figure 25 21. To remove the articles from the package, the end-most section is separated from the adjacent section and the strip is torn transversely of one of the sealed portions 24 close to the article containing compartment, as hereinbefore described.

It will be observed that in all forms of the invention the folded and overlying extensions provide an approximately flat and substantially smooth surface which makes it possible to apply a label 27 to the package as shown in Figures 14 and 15. Preferably the label will be applied adhesively, and with the label so applied to the package, the label will assist in holding the sections of the package against separation or unfolding.

It will be understood by those skilled in the art that the extensions may be formed on one or more and any edges of each section.

It will be seen that my invention provides an attractive and convenient package wherein a plurality of unit compartments or sections may be secured together and handled as an entity in the form of a block. This greatly facilitates the handling of a zigzag folded type of package, makes it easy to insert and remove the package respectively into and from a carton, and eliminates the possibility of hindrance and

Figure 8
sectional view

Figure 9 is
showing anoth
5 Figure 10 i
on the line 10

Figure 11 is
showing anoth

Figure 12
10 sectional view
Figure 11.

Figure 13 is
showing the ec
the strip illustr

15 Figure 14 is
showing the pa
Figure 15
sectional view
Figure 14.

20 Figure 16 is
showing another

Figure 17 is
the structure sh

25 Figure 18 is
showing the str

Figure 19 is a
another form of

Figure 20 is a
the package sho

30 Figure 21 is a
shewing the exte
sections folded an

Specifically de
of the invention :
35 8 inclusive, the p
tape **A** formed
either thermoplas
tic or adhesive
material marketed

40 the registered tra
the materials kno
"Diaphane", or
adhesively coated
such as that mat

45 under the register
phane", or metal i
a plurality of sup
which may be form
material longitudin

50 the layers **1** and **2** ;
compartments **4** for

as medicinal table
being in spaced re
the strip. One side

55 comprises the fold ;
other three sides are

annoyance that might be caused by unfolding
or separation of the sections during
handling of the package.

Having now fully described and ascer
5 tained my said invention and the manner
in which it is to be performed, I declare
that what I claim is:—

1. A package comprising a plurality of
approximately flat article-containing sec
tions disposed in side-by-side relation with
an extension at least one edge of each
section and the whole of such extensions
folded into overlying relation and separably
connected together.

15 2. A package in which superposed layers
of flexible strip material are sealed together
to provide approximately flat article-con
taining sections each of which has an exten
sion of the said material along at least one
20 side of the section, and in which a plurality
of the said sections are disposed in side-by
side relation with an extension of each sec
tion folded into overlying relation and
separably secured to an extension of an
25 adjacent section.

3. A package according to Claim 2, in
which the article-containing sections are
spaced longitudinally of the layers of strip
material which latter are folded between
30 adjacent sections in zigzag form.

4. A package according to any pre
claim, in which the said extension
provided along longitudinal edges o
sections.

5. A package according to any pre
claim, in which extensions are provi
opposite edges of the sections.

6. A package according to any pre
claim, in which the said extensor ad
secured together by thermoplastic ad

7. A package according to any pre
claim, in which the extensions are
into approximately a common pla
pendicular to the general planes
sections.

8. A package according to Claim
which a sheet of material, for exa
label, overlies and is separably sec
the extensions.

9. A package substantially as de
with reference to the accom
drawings.

Dated this 1st day of May, 1941.

LEROY LINCOLN SALFISBERG

By his Patent Attorneys,
CLEMENT HALL & SON, ASHTON &
Fellows Institute of Patent Att
of Australia.

Witness—C. Greenhill.